



Fibrillated PP Microfiber (FPM-12)

Product Description

Fiberego's Fibrillated PP Microfiber FPM-12 is a cutting-edge, 12mm long fibrillated polypropylene fiber developed specifically for the concrete industry. This product is engineered to significantly improve the performance and durability of concrete by integrating seamlessly within the mix, offering a revolutionary alternative to traditional reinforcement methods.

Technical Specifications

Composition	100% Virgin Polypropylene
Length	12mm
Alkali&Acid Resistance	High
Melting Point	160-170°C
Tensile Strength	≥400MPa
Elastic Modulus	≥3.5GPa
Elongation	20 - 25%

Product Advantages

- **Early Age Strength:** Enhances green strength, crucial for structural integrity shortly after concrete placement.
- **Crack Resistance:** Effectively controls and reduces the formation of intrinsic and shrinkage-related cracking.
- **Durability:** Increases the concrete's resistance to mechanical wear and environmental conditions.
- **Efficiency:** Reduces material waste and rebound in sprayed concrete applications, enhancing application efficiency.
- **Safety:** Decreases the risk of explosive spalling in fire situations, improving overall safety.
- **Environmental Protection:** Offers significant resistance to freeze/thaw cycles, maintaining structural integrity in varying climates.
- **Cohesion:** Improves mix cohesion, reducing segregation and enhancing the uniformity of the concrete.

Applications

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|--------------------------------|-------------------------|
| 1. Slabs on ground | 13. Multi-story garages |
| 2. Sidewalks | 14. Marine products |
| 3. Driveways | 15. Walls |
| 4. Decks | |
| 5. Curbs | |
| 6. Stamped finishes | |
| 7. Precast elements | |
| 8. Overlays | |
| 9. Shotcrete | |
| 10. Bridge decks | |
| 11. High-rise buildings | |
| 12. Concrete framed structures | |

FAQs

Q1: How does FPM-12 enhance the early age strength of concrete?

A1: FPM-12 provides additional support within the concrete matrix, increasing its ability to withstand early-age stresses.

Q2: Can FPM-12 be used in environmentally sensitive projects?

A2: Yes, FPM-12 is particularly effective in such projects due to its resistance to environmental stressors and non-corrosive nature.

Q3: What are the main benefits of using FPM-12 over traditional steel mesh?

A3: FPM-12 offers enhanced durability, resistance to corrosion, and is easier to handle and install, reducing overall project costs and time.

Packaging

- **Inner Packaging:** Each pack contains 0.2-4 kg, sealed in standard plastic bags for quality preservation.
- **Outer Packaging:** Packs are placed in woven bags or cardboard boxes, each weighing 10-20 kg, tailored to customer specifications.
- **Customized Options:** Available in water-soluble film, water-soluble paper, or regular paper bags for diverse needs.
- **Compression Packaging:** Reduces volume for efficient storage and transport, enhancing cost-effectiveness and sustainability.

Storage and Transportation

► Storage Requirements:

- Store in a dry, cool, ventilated area.
- Avoid direct sunlight to prevent degradation from UV exposure.
- Keep away from humid environments to maintain fiber performance.
- Avoid heavy pressure and high stacking to prevent packaging damage.

► Transportation Precautions:

- Handle carefully during loading and unloading to prevent damage.
- Ensure the transport vehicle is dry and clean to avoid moisture.
- Protect from sharp objects and prevent heavy items from crushing the packaging.

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Fiberego is a global manufacturer of fibers, specializing in a variety of fibers for the concrete industry.



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